

ANTI-FLICKER SYSTEM FOR MULTI-PLANE GRAPHICS

ABSTRACT OF THE DISCLOSURE

Flickering artifacts are removed from a displayed image by storing digital luminance values in a compressed form using disallowed luminance values clipped from a range of luminance values to encode run lengths of identical values of truncated luminance values and bits corresponding to bits truncated from the luminance values. A correction value is derived from a filter transfer function computed by summing an increase in correction value above a threshold within a range of luminance differences with a maximum change in correction value in each lower range, this providing a piecewise linear substantially quadratic transfer function without discontinuities that would engender other image artifacts. The non-linearity of the transfer function is thus adaptive to different image conditions and types in regions of respective image planes and the correction factors implemented by the transfer function are freely adjustable to accommodate, for example, different scanning standards and display refresh rates.